"EMB"

Name of Work: Impovements of roads and Drains at A Sector, B Sector MIG 3rd phase Chikkabommasandra and Surrounding areas in Ward No 04

"FIRST AND FINAL BILL"

"PRE-MEASUREMENT SHEETS"

ne of Work: Impovements of roads and Drains at A Sector, B Sector MIG 3rd phase Chikkabommasandra and Surrounding areas in Ward No 04

"FIRST AND FINAL BILL"

Name of Work: Impovements of roads and Drains at A Sector, B Sector MIG 3rd phase Chikkabommasandra and Surrounding areas in Ward No 04

Detailed Measurements

f Measurement :

Discription of Item		No	Length	B1	B2	Avg. B	Depth	Qty	Unit
KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications.									
For Drain									
Someshwaranagara, 1st main road MIG 3rd phase									
Cross Road-1		2	30.00		1.00		1.00	60.00	
		2	30.00		1.00		1.00	60.00	
		2	10.50		1.00		1.00	21.00	
Cross Road-2		2	30.00		1.00		1.00	60.00	
		2	22.00		1.00		1.00	44.00	
Cross Road-3		2	30.00		1.00		1.00	60.00	
		2	30.00		1.00		1.00	60.00	
		2	30.00		1.00		1.00	60.00	
		2	5.50		1.00		1.00	11.00	
Someshwaranagara, 2nd main road MIG 3rd phase									
Cross Road-1		1	16.40		1.00		1.00	16.40	
Cross Road-2		1	30.00		1.00		1.00	30.00	
		1	30.00		1.00		1.00	30.00	
		1	3.20		1.00		1.00	3.20	
Cross Road-3		1	30.00		1.00		1.00	30.00	
		1	13.00		1.00		1.00	13.00	
Cross Road-4		1	5.30		1.00		1.00	5.30	
Cross Road-5		1	30.00		1.00		1.00	30.00	
		1	25.00		1.00		1.00	25.00	
Cross Road		1	30.00		1.00		1.00	30.00	
		1	30.00		1.00		1.00	30.00	
		1	30.00		1.00		1.00	30.00	
		1	26.00		1.00		1.00	26.00	
Someshwaranagara, MIG 1st main road 3rd phase									
Culvert-1		1	5.90		1.50		1.00	8.85	
Culvert-2		1	6.40		1.50		1.00	9.60	
Culvert-3		1	5.70		1.50		1.00	8.55	
For Road									
Someshwaranagara, 1st main road MIG 3rd phase									
Cross Road-1		1	30.00	6.50	6.40	6.45	0.25	48.38	
		1	30.00	6.40	7.10	6.75	0.25	50.63	
		1	10.50	7.10	7.50	7.30	0.25	19.16	CUFC
Cross Road-2		1	30.00	4.60	4.20	4.40	0.25	33.00	

		1	22.00	4.20	4.50	4.35	0.25	23.93	
Cross Road-3		1	30.00	4.10	3.70	3.90	0.25	29.25	
		1	30.00	3.70	3.90	3.80	0.25	28.50	
		1	30.00	3.90	3.90	3.90	0.25	29.25	
		1	5.50	3.90	3.90	3.90	0.25	5.36	
Approach road		1	19.40	4.10	3.70	3.90	0.25	18.92	
Sanjeevappa Rd									
Cross Road-1		1	30.00	3.50	3.60	3.55	0.25	26.63	
Cross Road-2		1	30.00	3.60	3.70	3.65	0.25	27.38	
Cross Road-3		1	30.00	3.90	4.20	4.05	0.25	30.38	
		1	3.00	4.20	4.10	4.15	0.25	3.11	
Cross Road-4		1	30.00	4.70	4.50	4.60	0.25	34.50	C&F
							Present Qty	1170.25	Cum

Newzen Consultants Bangalore

Assistant Engineer 19/12/18

19/12/2018

Asst. Executive Engineer,

Name of Work: Impovements of roads and Drains at A Sector, B Sector MIG 3rd phase Chikkabommasandra and Surrounding areas in Ward No 04

Detailed Measurements

f Measurement :

Discription of Item		No	Length	B1	B2	Avg. B	Depth	Qty	Unit
Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum. Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications									
From item no. 01								1170.25	
							Present Qty	1170.25	Cum

Nerven Consultants Bangalore

Assistant Engineer

Asst. Executive Engineer,

Name of Work: Impovements of roads and Drains at A Sector, B Sector MIG 3rd phase Chikkabommasandra and Surrounding areas in Ward No 04

Detailed Measurements

Measurement :

Discription of Item		No	Length	B1	B2	Avg B	Depth	Qty	Unit
Providing and laying in position plain cement concrete of Mix 1:4:8 with OPC @ 180kgs, with 40mm and down size graded granite metal coarse aggregates 0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as									
For Drain									
Someshwaranagara, 1st main road MIG 3rd phase									
Cross Road-1		2	30.00		1.00		0.15	9.00	
		2	30.00		1.00		0.15	9.00	
		2	10.50		1.00		0.15	3.15	
Cross Road-2		2	30.00		1.00		0.15	9.00	
		2	22.00		1.00		0.15	6.60	
Cross Road-3		2	30.00		1.00		0.15	9.00	
		2	30.00		1.00		0.15	9.00	
		2	30.00		1.00		0.15	9.00	
		2	5.50		1.00		0.15	1.65	
Someshwaranagara, 2nd main road MIG 3rd phase									
Cross Road-1		1	16.40		1.00		0.15	2.46	
Cross Road-2		1	30.00		1.00		0.15	4.50	
		1	30.00		1.00		0.15	4.50	
		1	3.20		1.00		0.15	0.48	
Cross Road-3		1	30.00		1.00		0.15	4.50	
		1	13.00		1.00		0.15	1.95	
Cross Road-4		1	5.30		1.00		0.15	0.80	
Cross Road-5		1	30.00		1.00		0.15	4.50	
		1	25.00		1.00		0.15	3.75	
Cross Road		1	30.00		1.00		0.15	4.50	
		1	30.00		1.00		0.15	4.50	
		1	30.00		1.00		0.15	4.50	
		1	26.00		1.00		0.15	3.90	
Someshwaranagara, 1st main road MIG 3rd Phase									
Culvert-1		1	5.90		1.50		0.15	1.33	
Culvert-2		1	6.40		1.50		0.15	1.44	
Culvert-3		1	5.70		1.50		0.15	1.28	
For Road									
Someshwaranagara, 1st main road MIG 3rd Phase									
Cross Road-1		1	30.00	6.50	6.40	6.45	0.15	29.03	
		1	30.00	6.40	7.10	6.75	0.15	30.38	CUFT
		1	10.50	7.10	7.50	7.30	0.15	11.50	

Cross Road-2		1	30.00	4.60	4.20	4.40	0.15	19.80	
		1	22.00	4.20	4.50	4.35	0.15	14.36	
Cross Road-3		1	30.00	4.10	3.70	3.90	0.15	17.55	
		1	30.00	3.70	3.90	3.80	0.15	17.10	
		1	30.00	3.90	3.90	3.90	0.15	17.55	
		1	5.50	3.90	3.90	3.90	0.15	3.22	
Approach road		1	19.40	4.10	3.70	3.90	0.15	11.38	
Sanjeevappa Rd									
Cross Road-1		1	30.00	3.50	3.60	3.55	0.15	15.98	
Cross Road-2		1	30.00	3.60	3.70	3.65	0.15	16.43	
Cross Road-3		1	30.00	3.90	4.20	4.05	0.15	18.23	
		1	3.00	4.20	4.10	4.15	0.15	1.87	
Cross Road-4		1	30.00	4.70	4.50	4.60	0.15	20.70	c & c
							Present Qty	359.30	Cum

Newgen Consultants Bangalore

Assistant Engineer

28/12/18

Asst. Executive Engineer,

Name of Work: Impovements of roads and Drains at A Sector, B Sector MIG 3rd phase Chikkabommasandra and Surrounding areas in Ward No 04

Detailed Measurements

Date of Measurement :

Sl No	Discription of Item		No	Length	B1	Depth	Qty	Unit
5	KSRB 4.9.2 : Providing T .M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per							
	Total Drain length = 734.90m Derived from item No-4							
	Main bar 12mm dia bar @ 150mmC/c							
	12mm bar unit weight = 0.89kg/mtr							
	734.9/0.15=4900Nos		4890	2.20		0.89	9574.62	
	Distribution bar 10mm dia 180mm C/c							
	10mm bar unit weight = 0.61kg/mtr		15	734.90		0.61	6724.34	
	Total Culvert length = 18.00m Derived from item No-4							
	Main bar 12mm dia bar @ 200mmC/c							
	12mm bar unit weight = 0.89kg/mtr							
	18/0.2=90Nos	2.00	90	2.20		0.89	352.44	
	Distribution bar 10mm dia 200mm C/c							
	10mm bar unit weight = 0.61kg/mtr							
		2.00	20	18.00		0.61	439.20	C & F C
							17090.60	Kgs
						Present Qty	**17.09**	**Ton**

Newzen Consultants Bangalore

Ramadargeeral
Assistant Engineer 5/01/2019

Asst. Executive Engineer,

"MEASUREMENT SHEETS"

e of Work: Impovements of roads and Drains at A Sector, B Sector MIG 3rd phase Chikkabommasandra and Surrounding areas in Ward No 04

"FIRST AND FINAL BILL"

Name of Work: Impovements of roads and Drains at A Sector, B Sector MIG 3rd phase Chikkabommasandra and Surrounding areas in Ward No 04

Detailed Measurements

Discription of Item		No	Length	B1	B2	Avg. B	Depth	Qty	Unit
SRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications.									
From premeasurement sheet no.								1170.25	
							Present Qty	**1170.25**	**Cum**
Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum. Placing upper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications.									
From premeasurement sheet no.								1170.25	
							Present Qty	**1170.25**	**Cum**
Providing and laying in position plain cement concrete of Mix 1:4:8 with OPC @ 180kgs, with 40mm and down size graded granite metal coarse aggregates 0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, 7DOM curing complete as per specifications									
From premeasurement sheet no.								359.30	
							Present Qty	**359.30**	**Cum**

Nirmaan Citizen Consultants Bangalore

Assistant Engineer

Asst. Executive Engineer,

Name of Work: Impovements of roads and Drains at A Sector, B Sector MIG 3rd phase Chikkabommasandra and Surrounding areas in Ward No 04

Detailed Measurements

of Measurement :

Discription of Item		No	Length	B1	B2	Avg. B	Depth	Qty	Unit
Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications.									
For Drain									
Raft									
~~Someshwaranagara~~, 1st main road MIG 3rd phase									
Cross Road-1		2	30.00		0.90		0.15	8.10	
		2	30.00		0.90		0.15	8.10	
		2	10.50		0.90		0.15	2.84	
Cross Road-2		2	30.00		0.90		0.15	8.10	
		2	22.00		0.90		0.15	5.94	
Cross Road-3		2	30.00		0.90		0.15	8.10	
		2	30.00		0.90		0.15	8.10	
		2	30.00		0.90		0.15	8.10	
		2	5.50		0.90		0.15	1.49	
~~Someshwaranagara~~, 2nd main road MIG 3rd Phase									
Cross Road-1		1	16.40		0.90		0.15	2.21	
Cross Road-2		1	30.00		0.90		0.15	4.05	
		1	30.00		0.90		0.15	4.05	
		1	3.20		0.90		0.15	0.43	
Cross Road-3		1	30.00		0.90		0.15	4.05	
		1	13.00		0.90		0.15	1.76	
Cross Road-4		1	5.30		0.90		0.15	0.72	
Cross Road-5		1	30.00		0.90		0.15	4.05	
		1	25.00		0.90		0.15	3.38	
Cross Road		1	30.00		0.90		0.15	4.05	
		1	30.00		0.90		0.15	4.05	
		1	30.00		0.90		0.15	4.05	
		1	26.00		0.90		0.15	3.51	
~~Someshwaranagara~~, 1st main road MIG 3rd phase									
Culvert-1		1	5.90		1.20		0.30	2.12	
Culvert-2		1	6.40		1.20		0.30	2.30	
Culvert-3		1	5.70		1.20		0.30	2.05	C&A
Wall									
~~Someshwaranagara~~, 1st main road									

Ramesh Gunti

Cross Road-1		4	30.00	0.15	0.75	13.50	
		4	30.00	0.15	0.75	13.50	
		4	10.50	0.15	0.75	4.73	
Cross Road-2		4	30.00	0.15	0.75	13.50	
		4	22.00	0.15	0.75	9.90	
Cross Road-3		4	30.00	0.15	0.75	13.50	
		4	30.00	0.15	0.75	13.50	
		4	30.00	0.15	0.75	13.50	
		4	5.50	0.15	0.75	2.48	
Someshwaranagara, MIG 2nd main road 3rd Phase							
Cross Road-1		2	16.40	0.15	0.75	3.69	
Cross Road-2		2	30.00	0.15	0.75	6.75	
		2	30.00	0.15	0.75	6.75	
		2	3.20	0.15	0.75	0.72	
Cross Road-3		2	30.00	0.15	0.75	6.75	
		2	13.00	0.15	0.75	2.93	
Cross Road-4		2	5.30	0.15	0.75	1.19	
Cross Road-5		2	30.00	0.15	0.75	6.75	
		2	25.00	0.15	0.75	5.63	
Cross Road		2	30.00	0.15	0.75	6.75	
		2	30.00	0.15	0.75	6.75	
		2	30.00	0.15	0.75	6.75	
		2	26.00	0.15	0.75	5.85	
Someshwaranagara, 1st main road MIG 3rd Phase							
Culvert-1		2	5.90	0.30	0.90	3.19	
Culvert-2		2	6.40	0.30	0.90	3.46	
Culvert-3		2	5.70	0.30	0.90	3.08	
					Present Qty	280.76	Cum

Nezen Consultants Bangalore

Assistant Engineer 14/01/19

Asst. Executive Engineer,

Name of Work: Impovements of roads and Drains at A Sector, B Sector MIG 3rd phase Chikkabommasandra and Surrounding areas in Ward No 04

Item No	Discription of Item	Detailed Measurements						
			No	Length	B1	Depth	Qty	Unit
5	KSRB 4.9.2 : Providing T .M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per							
	From premeasurement sheet no						17.09	
						Present Qty	**17.09**	**Ton**

NEWZEN CONSULTANT * BANGALORE *

Newzen Consultants Bangalore

Assistant Engineer

Asst. Executive Engineer,

Name of Work: Impovements of roads and Drains at A Sector, B Sector MIG 3rd phase Chikkabommasandra and Surrounding areas in Ward No 04

Detailed Measurements

te of Measurement :

Discription of Item		No	Length	B1	B2	Avg. B	Depth	Qty	Uni
RCC Precast covering slab for drain (10cm thick)									
For Drain									
~~Someshwaranagara~~, 1st main road MIG 3rd Phase									
Cross Road-1		2	30.00		0.90			54.00	
		2	30.00		0.90			54.00	
		2	10.50		0.90			18.90	
Cross Road-2		2	30.00		0.90			54.00	
		2	22.00		0.90			39.60	
Cross Road-3		2	30.00		0.90			54.00	
		2	30.00		0.90			54.00	
		2	30.00		0.90			54.00	
		2	5.50		0.90			9.90	
~~Someshwaranagara~~, 2nd main road MIG 3rd Phase									
Cross Road-1		1	16.40		0.90			14.76	
Cross Road-2		1	24.00		0.90			21.60	
		1	22.00		0.90			19.80	
		1	3.20		0.90			2.88	
Cross Road-3		1	25.00		0.90			22.50	
		1	13.00		0.90			11.70	
Cross Road-4		1	5.30		0.90			4.77	
Cross Road-5		1	22.00		0.90			19.80	
		1	25.00		0.90			22.50	
Cross Road		1	26.00		0.90			23.40	
		1	21.00		0.90			18.90	
		1	30.00		0.90			27.00	
		1	26.00		0.90			23.40	
							Present Qty	625.41	Sqn

Newzen Consultants Bangalore

Assistant Engineer

19/01/2019

Asst. Executive Engineer,

Name of Work: Impovements of roads and Drains at A Sector, B Sector MIG 3rd phase Chikkabommasandra and Surrounding areas in Ward No 04

Detailed Measurements

Measurement :

Discription of Item		No	Length	B1	B2	Avg B	Depth	Qty	Unit
Providing and Laying Pre Cast Drain Cover slabs of 250mm thickness including cost of all materials, Labour, curing, transportation, loading, unloading etc									
~~Someshwaranagara,~~ 1st main road MIG 3rd phase									
Culvert-1		1	5.90	1.20				7.08	
Culvert-2		1	6.40	1.20				7.68	
Culvert-3		1	5.70	1.20				6.84	
							Present Qty	**21.60**	**Sqm**

NEWTEN CONSULTANT * BANGALORE *

Newten Consultants Bangalore

Ramesh Gowda

Assistant Engineer

Asst. Executive Engineer,

Name of Work: **Impovements of roads and Drains at A Sector, B Sector MIG 3rd phase Chikkabommasandra and Surrounding areas in Ward No 04**

Detailed Measurements

Measurement :

Discription of Item		No	Length	B1	B2	Avg. B	Depth	Qty	Unit
Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46um,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing) & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete									
For Road									
Someshwaranagara, 1st main road mig 3rd phase									
Cross Road-1		1	30.00	6.50	6.40	6.45	0.15	29.03	
		1	30.00	6.40	7.10	6.75	0.15	30.38	
		1	10.50	7.10	7.50	7.30	0.15	11.50	
Cross Road-2		1	30.00	4.60	4.20	4.40	0.15	19.80	
		1	22.00	4.20	4.50	4.35	0.15	14.36	
Cross Road-3		1	30.00	4.10	3.70	3.90	0.15	17.55	
		1	30.00	3.70	3.90	3.80	0.15	17.10	
		1	30.00	3.90	3.90	3.90	0.15	17.55	
		1	5.50	3.90	3.90	3.90	0.15	3.22	
Approach road		1	19.40	4.10	3.70	3.90	0.15	11.35	
Sanjeevappa Rd									
Cross Road-1		1	30.00	3.50	3.60	3.55	0.15	15.98	
Cross Road-2		1	30.00	3.60	3.70	3.65	0.15	16.43	
Cross Road-3		1	30.00	3.90	4.20	4.05	0.15	18.23	
		1	3.00	4.20	4.10	4.15	0.15	1.87	
Cross Road-4		1	30.00	4.70	4.50	4.60	0.15	20.70	
							Present Qty	**245.01**	**Cum**

Newzen Consultants Bangalore

Assistant Engineer

29/01/2019

Asst. Executive Engineer,

Work: Impovements of roads and Drains at A Sector, B Sector MIG 3rd phase Chikkabommasandra and Surrounding areas in Ward No 04

Detailed Measurements

Measurement :

Discription of Item		No	Length	B1	B2	Avg. B	Depth	Qty	Unit
Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift.									
Cor Road									
Maneshwaranagara,									
1st main road MIG 3rd phase									
Cross Road-1		1	30.00	6.50	6.40	6.45		193.50	
		1	30.00	6.40	7.10	6.75		202.50	
		1	10.50	7.10	7.50	7.30		76.65	
Cross Road-2		1	30.00	4.60	4.20	4.40		132.00	
		1	22.00	4.20	4.50	4.35		95.70	
Cross Road-3		1	30.00	4.10	3.70	3.90		117.00	
		1	30.00	3.70	3.90	3.80		114.00	
		1	30.00	3.90	3.90	3.90		117.00	
		1	5.50	3.90	3.90	3.90		21.45	
Approach road		1	19.40	4.10	3.70	3.90		75.66	
Sanjeevappa Rd									
Cross Road-1		1	30.00	3.50	3.60	3.55		106.50	
Cross Road-2		1	30.00	3.60	3.70	3.65		109.50	
Cross Road-3		1	30.00	3.90	4.20	4.05		121.50	
		1	3.00	4.20	4.10	4.15		12.45	
Cross Road-4		1	30.00	4.70	4.50	4.60		138.00	
							Present Qty	**1633.41**	**Sqm**

NEWZEN CONSULTANTS BANGALORE

Newzen Consultants Bangalore

Assistant Engineer

29/01/19

Asst. Executive Engineer,

29/01/2019

Name of Work: Impovements of roads and Drains at A Sector, B Sector MIG 3rd phase Chikkabommasandra and Surrounding areas in Ward No 04

e of Measurement : Detailed Measurements

Discription of Item		No	Length	B1	B2	Avg B	Depth	Qty	Unit
Providing groove cutting for width of 5mm to 10mm and depth 80mm-100mm including cost of cutting machine, generator & HOM, including cost of blade,coolant etc , including cleaning of groove & providing sand and hot bitumen fillars, and filler metal etc , including cost of conveyance of all materials, labour, lead and lift charges and all other incidental charges as per drawing and as									
For Road									
Someshwaranagara, 1st main road MIG 3rd phase									
Cross Road-1		10	6.45					64.50	
		10	6.75					67.50	
		3	7.30					21.90	
Cross Road-2		10	4.40					44.00	
		7	4.35					30.45	
Cross Road-3		10	3.90					39.00	
		10	3.80					38.00	
		10	3.90					39.00	
		2	3.90					7.80	
Approach road		7	3.90					27.30	
Sanjeevappa Rd									
Cross Road-1		10	3.55					35.50	
Cross Road-2		10	3.65					36.50	
Cross Road-3		10	4.05					40.50	
		1	4.15					4.15	
Cross Road-4		10	4.60					46.00	
							Present Qty	**542.10**	**m**

CSPC

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Newlen Consultants Bangalore

Assistant Engineer

2/02/2019

CSPC

02/02/2019

Asst. Executive Engineer,